

1. MAIN PAGE

```
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import main.java.User;

public Main() {
    initComponents();
}

int idd;
String uctype;
int newid;
String uname ;
String usertype;

public Main(int id,String username,String utype) {
    initComponents();
    this.uname = username;
    jLabel4.setText(uname);
    this.usertype = utype;
    jLabel5.setText(usertype);
    this.newid = id;
    idd= newid;
    uctype = jLabel5.getText();
    if(uctype.equals("Doctor")){
        jButton10.setVisible(false);
        jButton6.setVisible(false);
    }
    else if(uctype.equals("Receptionist")){
        jButton1.setVisible(false);
    }
}

private void initComponents() {

    jButton8 = new javax.swing.JButton();
    jPanel1 = new javax.swing.JPanel();
    jButton1 = new javax.swing.JButton();
    jButton6 = new javax.swing.JButton();
    jButton9 = new javax.swing.JButton();
    jButton10 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jPanel2 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
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jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();

jButton8.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton8ActionPerformed(evt);
    }
});

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel1.setBackground(new java.awt.Color(153, 0, 51));

jButton1.setText("Doctor");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton6.setText("Create User");
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});

jButton9.setText("Exit");
jButton9.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton9ActionPerformed(evt);
    }
});

jButton10.setText("Patient");
jButton10.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton10ActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
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jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(58, 58, 58)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
            .addComponent(jButton1, javax.swing.GroupLayout.Alignment.LEADING,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton6, javax.swing.GroupLayout.DEFAULT_SIZE, 117, Short.MAX_VALUE)
            .addComponent(jButton9, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton10, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap(56, Short.MAX_VALUE)))
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(39, 39, 39)
        .addComponent(jButton10, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(45, 45, 45)
        .addComponent(jButton6, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(45, 45, 45)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 35,
            javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(45, 45, 45)
        .addComponent(jButton9, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
            javax.swing.GroupLayout.PREFERRED_SIZE))
    .addContainerGap(39, Short.MAX_VALUE)))
);
jLabel1.setBackground(new java.awt.Color(204, 0, 51));
jLabel1.setFont(new java.awt.Font("Serif", 2, 48)); // NOI18N
jLabel1.setForeground(new java.awt.Color(204, 0, 0));
jLabel1.setText("      JD Clinic");

jPanel2.setBackground(new java.awt.Color(153, 0, 51));

jLabel2.setBackground(new java.awt.Color(255, 255, 255));
jLabel2.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText(" User Name ");

jLabel3.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("User Type");

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jLabel4.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("jLabel4");

jLabel5.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("jLabel5");

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(40, 40, 40)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 97, Short.MAX_VALUE)
            .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(91, 91, 91)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel4)
            .addComponent(jLabel5))
        .addGapContainerGap(105, Short.MAX_VALUE)))
);

jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(65, 65, 65)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 29,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4))
        .addGapGap(28, 28)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(jLabel5))
        .addGapContainerGap(65, Short.MAX_VALUE)))
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

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        .addGroup(layout.createSequentialGroup()
            .addGap(28, 28)
            .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
            .addGap(18, 18, 18)
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(38, 38, 38))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 339,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(182, 182, 182))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 79,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(76, 76, 76)
                    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(18, 18, 18)
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addContainerGap(115, Short.MAX_VALUE))
    );
}

pack();
setLocationRelativeTo(null);
}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    if(uctype.equals("Doctor")){
        String uctype = jLabel5.getText();
        try {
            new Doctor(id,uctype).setVisible(true);
        } catch (SQLException ex) {
            Logger.getLogger(Main.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}

```

```

}

private void jButton8ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton10ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    Patient p = null;
    try {
        p = new Patient();
    } catch (SQLException ex) {
        Logger.getLogger(Main.class.getName()).log(Level.SEVERE, null, ex);
    }
    p.setVisible(true);
}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    User u = null;
    try {
        u = new User();
        u.setVisible(true);
    } catch (SQLException ex) {
        Logger.getLogger(Main.class.getName()).log(Level.SEVERE, "error", ex);
    }
}

private void jButton9ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    // <editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

```

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/*
try {
    for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break;
        }
    }
} catch (ClassNotFoundException ex) {
    java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Main().setVisible(true);
    }
});

}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton10;
private javax.swing.JButton jButton6;
private javax.swing.JButton jButton8;
private javax.swing.JButton jButton9;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
// End of variables declaration
}

```

2. LOGIN PAGE

```
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import main.java.User;
import java.sql.ResultSet;
import javax.swing.JOptionPane;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

/**
 *
 * @author Janani
 */
public class Login extends javax.swing.JFrame {

    /**
     * Creates new form Login
     */
    public Login() throws SQLException {
        initComponents();
        Connect();
    }
    Connection con;
    PreparedStatement pst;
    ResultSet rs;

    public void Connect() throws SQLException{
        try {
            Class.forName("com.mysql.jdbc.Driver");
            con = java.sql.DriverManager.getConnection("jdbc:mysql://localhost/jd_clinic","root","");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(User.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        txtusername = new javax.swing.JTextField();
        txtpassword = new javax.swing.JPasswordField();
        txtutype = new javax.swing.JComboBox();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jPanel1.setBackground(new java.awt.Color(153, 0, 51));
        jPanel1.setBorder(javax.swing.BorderFactory.createCompoundBorder());

        jLabel1.setBackground(new java.awt.Color(255, 255, 255));
        jLabel1.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(255, 255, 255));
        jLabel1.setText("User Name");

        jLabel2.setBackground(new java.awt.Color(255, 255, 255));
        jLabel2.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(255, 255, 255));
        jLabel2.setText("Password ");

        jLabel3.setBackground(new java.awt.Color(255, 255, 255));
        jLabel3.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(255, 255, 255));
        jLabel3.setText("User Type");

        txtusername.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {

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        txtusernameActionPerformed(evt);
    });
});

txtutype.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Doctor", "Receptionist", " " }));

jButton1.setText("Login");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton2.setText("Exit");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jLabel4.setFont(new java.awt.Font("Serif", 2, 36)); // NOI18N
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("Login Page ");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(105, 105, 105)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(144, 144, 144)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(149, 149, 149)
                            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 140, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(105, 105, 105)
                            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 137, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(142, 142, 142, Short.MAX_VALUE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(255, 255, 255)
                    .addComponent(jLabel4)))
            .addGapContainerGap(142, Short.MAX_VALUE))
        );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(27, 27, 27)
                .addComponent(jLabel4)
                .addGap(40, 40, 40)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(txtusername, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(txtutype, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(86, 86, 86)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(txtpassword, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 36, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 36, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(43, 43, 43))
        );
);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(144, 144, 144)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(105, 105, 105)
                    .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 140, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(255, 255, 255)
                    .addComponent(jLabel4)))
            .addGapContainerGap(142, Short.MAX_VALUE))
        );
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
            .addGroup(layout.createSequentialGroup()
                .addGap(144, 144, 144)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(149, 149, 149)
                        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 140, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(105, 105, 105)
                        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 137, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(142, 142, 142, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(255, 255, 255)
                .addComponent(jLabel4)))
            .addGapContainerGap(142, Short.MAX_VALUE))
        );
);
);
};

jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
jLabel4.setFont(new java.awt.Font("Serif", 2, 36)); // NOI18N
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("Login Page ");

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        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap()
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(21, 21, 21)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
        Short.MAX_VALUE)
            .addGap(21, 21, 21)
        )
    );
}

pack();
setLocationRelativeTo(null);
}// </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String username = txtusername.getText();
    String password = txtpassword.getText();
    String utype = txtutype.getSelectedItem().toString();

    try {
        pst = con.prepareStatement("select * from user where username = ? and password = ? and utype = ?");
        pst.setString(1,username);
        pst.setString(2,password);
        pst.setString(3,utype);

        rs = pst.executeQuery();
        if(rs.next()){
            int userid = rs.getInt("id");
            this.dispose();
            this.setVisible(false);
            new Main(userid,username,utype).setVisible(true);
        }
        else{
            JOptionPane.showMessageDialog(this,"UserName or Password do not match ");
            txtusername.setText("");
            txtpassword.setText("");
            txtutype.setSelectedIndex(-1);
            txtusername.requestFocus();
        }
    }

} catch (SQLException ex) {
    Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
}

}

private void txtusernameActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

/***
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    // <editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) " >
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

```

```
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        try {
            new Login().setVisible(true);
        } catch (SQLException ex) {
            Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
});

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JPasswordField txtpassword;
private javax.swing.JTextField txtusername;
private javax.swing.JComboBox<String> txtutype;
// End of variables declaration
}
```

3. PATIENT PAGE

```
import com.mysql.cj.jdbc.result.ResultSetMetaData;
import com.mysql.cj.xdevapi.Statement;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import main.java.User;
import java.sql.ResultSet;
import java.util.Vector;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

/**
 *
 * @author Janani
 */
public class Patient extends javax.swing.JFrame {

    /**
     * Creates new form Patient
     */
    public Patient() throws SQLException {
        initComponents();
        Connect();
        AutoID();
    }

    private void initComponents() {
        // Initialization code here
    }

    private void Connect() {
        // Connection logic here
    }

    private void AutoID() {
        // Auto ID logic here
    }
}
```

```

Patient_table();

setTitle("Patient Window");

setSize(400, 300);

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

JLabel label = new JLabel("Patient Information");

add(label);

}

public static void main(String[] args) {

// Ensure the GUI is created on the Event Dispatch Thread

java.awt.EventQueue.invokeLater(new Runnable() {

    public void run() {

        try {

            new Patient().setVisible(true);

        } catch (SQLException ex) {

            Logger.getLogger(Patient.class.getName()).log(Level.SEVERE, null, ex);

        }

    }

});

}

Connection con;

PreparedStatement pst;

ResultSet rs;

public void Connect() throws java.sql.SQLException{

try {

    Class.forName("com.mysql.cj.jdbc.Driver");

    con = java.sql.DriverManager.getConnection("jdbc:mysql://localhost:3306/jd_clinic","root","");
} catch (ClassNotFoundException ex) {

    Logger.getLogger(User.class.getName()).log(Level.SEVERE, null, ex);

}

}

public void AutoID(){

try {

    java.sql.Statement s =  con.createStatement();

    rs = s.executeQuery("select MAX(patientno) from patient");

    rs.next();

}

```

```

        rs.getString("MAX(patientno)");

        if(rs.getString("MAX(patientno)")== null)
        {
            lblpno.setText("JD001");

        }
        else
        {
            try {
                Long.parseLong(rs.getString("MAX(patientno")).substring(2,rs.getString("MAX(patientno)").length()));
                id++;
                lblpno.setText("JD"+String.format("%03d", id));
            } catch (SQLException ex) {
                Logger.getLogger(Patient.class.getName()).log(Level.SEVERE, null, ex);
            }
        }
    }

}catch (SQLException ex) {
    Logger.getLogger(Patient.class.getName()).log(Level.SEVERE, null, ex);
}

}

public void Patient_table() throws SQLException{
    pst = con.prepareStatement("select * from patient");
    rs= pst.executeQuery();
    ResultSetMetaData Rsm = (ResultSetMetaData) rs.getMetaData();
    int c;
    c = Rsm.getColumnCount();

    DefaultTableModel df = (DefaultTableModel)jTable1.getModel();
    df.setRowCount(0);
}

```

```

while(rs.next())
{
    Vector v2 = new Vector();

    for(int i=1;i<=c;i++)
    {
        v2.add(rs.getString("patientno"));

        v2.add(rs.getString("name"));

        v2.add(rs.getString("phone"));

    }

    df.addRow(v2);
}

}

/** 
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel11 = new javax.swing.JLabel();
    jLabel12 = new javax.swing.JLabel();
    jLabel13 = new javax.swing.JLabel();
    jLabel14 = new javax.swing.JLabel();
    txtpname = new javax.swing.JTextField();
    txtphone = new javax.swing.JTextField();
    lblpno = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jLabel15 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(153, 0, 51));

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    jLabel11.setFont(new java.awt.Font("Serif", 2, 24)); // NOI18N
    jLabel11.setForeground(new java.awt.Color(255, 255, 255));
    jLabel11.setText("Patient Registration");

    jLabel12.setBackground(new java.awt.Color(255, 255, 255));
    jLabel12.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel12.setForeground(new java.awt.Color(255, 255, 255));
    jLabel12.setText("Patient no");

    jLabel13.setBackground(new java.awt.Color(255, 255, 255));
    jLabel13.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel13.setForeground(new java.awt.Color(255, 255, 255));
    jLabel13.setText("Patient Name");
}

```



```

jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setText("Exit");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null},
        {null, null, null},
        {null, null, null},
        {null, null, null}
    },
    new String [] {
        "Patient no", "Patient Name", "Phone no"
    }
) {
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.Integer.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
    }
});
jScrollPane1.setViewportView(jTable1);
if (jTable1.getColumnModel().getColumnCount() > 0) {
    jTable1.getColumnModel().getColumn(0).setResizable(false);
}

jLabel5.setFont(new java.awt.Font("Serif", 2, 48)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("Patient Registration");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(30, 30, 30)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(31, 31, 31)
                            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(242, 242, 242)
                            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(91, 91, 91)
                    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(91, 91, 91)
                    .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(242, 242, 242)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(31, 31, 31)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(242, 242, 242)
                    .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(99, 99, 99)
                    .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(242, 242, 242)
            .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
    )
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(30, 30, 30)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(31, 31, 31)
                            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(242, 242, 242)
                            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(91, 91, 91)
                    .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(91, 91, 91)
                    .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(242, 242, 242)
            .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(31, 31, 31)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(242, 242, 242)
                    .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(99, 99, 99)
                    .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(242, 242, 242)
            .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        )
    )
);

```

```

        javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(79, 79)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 442,
        javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(108, Short.MAX_VALUE)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel5)
                .addGap(356, 356, 356))
        );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(22, 22, 22)
                .addComponent(jLabel5)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(62, 62, 62)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 43, Short.MAX_VALUE)
                            .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jButton3, javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jButton4, javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(35, 35, 35)
                        .addComponent(jPanel1Layout.createSequentialGroup()
                            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE,
                            javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(107, Short.MAX_VALUE)))
                );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                    .addGap(108, 108, 108)
                    .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(107, Short.MAX_VALUE)
                    .addComponent(jPanel1Layout.createSequentialGroup()
                        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(107, Short.MAX_VALUE)))
            );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(108, 108, 108)
                    .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(107, Short.MAX_VALUE)
                    .addComponent(jPanel1Layout.createSequentialGroup()
                        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(107, Short.MAX_VALUE)))
            );
        pack();
        setLocationRelativeTo(null);
    } // </editor-fold>

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:

        String pname=txtpname.getText();
        String phone=txtphone.getText();
        String pno=lblpno.getText();

        try {
            pst = con.prepareStatement("update patient set name=?, phone=? where patientno = ?");
            pst.setString(1,pname);
            pst.setString(2,phone);
            pst.setString(3,pno);
            pst.executeUpdate();
        }
    }
}

```

```

JOptionPane.showMessageDialog(this,"Patient Record Updated");
AutoID();
txtpname.setText("");
txtphone.setText("");

Patient_table();
jButton1.setEnabled(true);
} catch (SQLException ex) {
    Logger.getLogger(Patient.class.getName()).log(Level.SEVERE, null, ex);
}

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String pno=lblpno.getText();
    String pname=txtpname.getText();
    String phone=txtphone.getText();

    try{
        pst = con.prepareStatement("insert into patient(patientno,name,phone)values(?, ?, ?)");
        pst.setString(1,pno);
        pst.setString(2,pname);
        pst.setString(3,phone);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(this,"Patient Record Inserted");
        AutoID();
        txtpname.setText("");
        txtphone.setText("");
        txtpname.requestFocus();
        Patient_table();
    }
    catch (SQLException ex) {
        Logger.getLogger(Patient.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void txtphoneActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    DefaultTableModel d1 = (DefaultTableModel)jTable1.getModel();
    int SelectIndex = jTable1.getSelectedRow();
    lblpno.setText(d1.getValueAt(SelectIndex,0).toString());
    txtpname.setText(d1.getValueAt(SelectIndex,1).toString());
    txtphone.setText(d1.getValueAt(SelectIndex,2).toString());

    jButton1.setEnabled(false);
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    String pno=lblpno.getText();

    try {
        pst = con.prepareStatement("delete from patient where patientno = ?");
        pst.setString(1,pno);
        pst.executeUpdate();

        JOptionPane.showMessageDialog(this,"Patient Record Deleted");
        AutoID();
        txtpname.setText("");
        txtphone.setText("");
    }
}

```

```
    Patient_table();
    jButton1.setEnabled(true);
} catch (SQLException ex) {
    Logger.getLogger(Patient.class.getName()).log(Level.SEVERE, null, ex);
}
}

/** 
 * @param args the command line arguments
 */

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JLabel lblpno;
private javax.swing.JTextField txtphone;
private javax.swing.JTextField txtpname;
// End of variables declaration
}
```

4.USER CREATION PAGE

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */
package main.java;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;

/**
 *
 * @author Janani
 */
public class User extends javax.swing.JFrame {

    /**
     * Creates new form User
     */
    public User() throws SQLException {
        initComponents();
        Connect();
    }
    Connection con;
    PreparedStatement pst;
    public void Connect() throws SQLException{
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost/jd_clinic","root","");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(User.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    txtname = new javax.swing.JTextField();
    txtpassword = new javax.swing.JPasswordField();
    txtusername = new javax.swing.JTextField();
    txtutype = new javax.swing.JComboBox();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(153, 0, 51));

    jLabel1.setBackground(new java.awt.Color(204, 0, 51));
    jLabel1.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("Name");

    jLabel2.setBackground(new java.awt.Color(204, 0, 51));
    jLabel2.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel2.setText("Password");

    jLabel3.setBackground(new java.awt.Color(204, 0, 51));
    jLabel3.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel3.setText("User Name");

    jLabel4.setBackground(new java.awt.Color(204, 0, 51));
    jLabel4.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel4.setText("User Type");

    jLabel5.setBackground(new java.awt.Color(204, 0, 51));
    jLabel5.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel5.setText("Create");

    txtname.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtnameActionPerformed(evt);
        }
    });

    txtusername.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtusernameActionPerformed(evt);
        }
    });

    txtutype.setModel(new javax.swing.DefaultComboBoxModel(new String[] {"Admin", "User"}));
    txtutype.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtutypeActionPerformed(evt);
        }
    });

    jButton1.setText("Cancel");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });

    jButton2.setText("Create");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });

    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addComponent(jLabel2)
                .addComponent(jLabel3)
                .addComponent(jLabel4)
                .addComponent(jLabel5))
            .addGap(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtpassword, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtusername, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtutype, javax.swing.GroupLayout.PREFERRED_SIZE, 150, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addComponent(jButton2)
                    .addComponent(jButton1)))
            .addContainerGap())
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel1)
                .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(txtpassword, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(txtusername, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel4)
                .addComponent(txtutype, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 18, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton2)
                .addComponent(jButton1)))
        .addContainerGap())
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    );
}

```

```

jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("User Name");

jLabel3.setBackground(new java.awt.Color(204, 0, 51));
jLabel3.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("Password");

jLabel4.setBackground(new java.awt.Color(204, 0, 51));
jLabel4.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("User Type");

jLabel5.setFont(new java.awt.Font("Serif", 2, 36)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("User Creation");

txtname.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtnameActionPerformed(evt);
    }
});

txtusername.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtusernameActionPerformed(evt);
    }
});

txttype.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Doctor ", "Receptionist" }));
txttype.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txttypeActionPerformed(evt);
    }
});

jButton1.setText("Add");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setText("Cancel");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(179, javax.swing.GroupLayout.PREFERRED_SIZE, Short.MAX_VALUE)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 82, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(192, 192, 192)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 80, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(179, 179, 179))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(275, javax.swing.GroupLayout.PREFERRED_SIZE, 275)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jLabel5)
                    .addGap(165, 165, 165)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(275, javax.swing.GroupLayout.PREFERRED_SIZE, 275)
                            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 96, javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(165, 165, 165)
                            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))))));
});

```

```

        .addComponent(jLabel1))
        .addGap(146, 146)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE, 182,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtpassword, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 182, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
                .addComponent(txtusername, javax.swing.GroupLayout.PREFERRED_SIZE, 182,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtytotype, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 182, javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(27, 27)
            .addComponent(jLabel15)
            .addGap(58, 58)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel11)
                .addComponent(txtname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(45, 45)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(txtusername, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(45, 45)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(txtpassword, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 50, Short.MAX_VALUE)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel4)
                .addComponent(txtytotype, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(55, 55, 55)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(56, 56, 56))
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            );
    )

    pack();
    setLocationRelativeTo(null);
} // </editor-fold>

private void txtnameActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void txtusernameActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String name = txtname.getText();
    String username = txtusername.getText();
    String password = txtpassword.getText();
    String usertype = txtutype.getSelectedItem().toString();

    try {
        pst = con.prepareStatement("insert into user(name,username,password,utype)values(?, ?, ?, ?)");
        pst.setString(1, name);
        pst.setString(2, username);
        pst.setString(3, password);
        pst.setString(4, usertype);
        pst.executeUpdate();

        JOptionPane.showMessageDialog(this,"User Inserted");
        txtname.setText("");
        txtusername.setText("");
        txtpassword.setText("");
        txtutype.setSelectedIndex(-1);
        txtname.requestFocus();
    } catch (java.sql.SQLException ex) {
        Logger.getLogger(User.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void txtutypeActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    // <editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) " >
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(User.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    // </editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            try {
                new User().setVisible(true);
            } catch (SQLException ex) {

```

```

        Logger.getLogger(User.class.getName()).log(Level.SEVERE, null, ex);
    }
}
});

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JTextField txtname;
private javax.swing.JPasswordField txtpassword;
private javax.swing.JTextField txtusername;
private javax.swing.JComboBox<String> txtutype;
// End of variables declaration
}

```

5. DOCTOR PAGE

```

import com.mysql.cj.jdbc.result.ResultSetMetaData;
import com.mysql.cj.xdevapi.Statement;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import main.java.User;
import java.sql.ResultSet;
import java.util.Vector;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */

/**
 *
 * @author Janani
 */
public class Doctor extends javax.swing.JFrame {

    /**
     * Creates new form Patient
     */
    public Doctor() throws SQLException {
        initComponents();
    }

    String utype;
    int id;

    int newid;

    public Doctor(int id, String utype) throws SQLException {
        initComponents();
        this.id = id;
        this.utype = utype;
        newid = id;

        //JOptionPane.showMessageDialog(this, newid);
        Connect();
    }
}

```

```

        AutoID();
        Doctor_table();
        setTitle("Patient Window");
        setSize(400, 300);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        JLabel label = new JLabel("Doctor Information");
        add(label);
    }
    public static void main(String[] args) {
        // Ensure the GUI is created on the Event Dispatch Thread
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    new Doctor().setVisible(true);
                } catch (SQLException ex) {
                    Logger.getLogger(Doctor.class.getName()).log(Level.SEVERE, null, ex);
                }
            }
        });
    }
    Connection con;
    PreparedStatement pst;
    ResultSet rs;
    public void Connect() throws java.sql.SQLException{
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = java.sql.DriverManager.getConnection("jdbc:mysql://localhost:3306/jd
clinic","root","");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(User.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
    public void AutoID(){
        try {
            java.sql.Statement s = con.createStatement();
            rs = s.executeQuery("select MAX(doctorno) from doctor");
            rs.next();
            rs.getString("MAX(doctorno)");

            if(rs.getString("MAX(doctorno)")== null)
            {
                lblno.setText("DS001");

            }
            else
            {
                try {
                    long id =
Long.parseLong(rs.getString("MAX(doctorno")).substring(2,rs.getString("MAX(doctorno")).length()));
                    id++;

                    lblno.setText("DS"+String.format("%03d", id));
                } catch (SQLException ex) {
                    Logger.getLogger(Doctor.class.getName()).log(Level.SEVERE, null, ex);
                }
            }
        }catch (SQLException ex) {
            Logger.getLogger(Doctor.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    @SuppressWarnings("unchecked")
    public void Doctor_table() throws SQLException{
        pst = con.prepareStatement("select * from doctor where log_id =?");
        pst.setInt(1, newid);
        rs= pst.executeQuery();
        ResultSetMetaData Rsm = (ResultSetMetaData) rs.getMetaData();
        int c;
        c = Rsm.getColumnCount();

        DefaultTableModel df = (DefaultTableModel)jTable1.getModel();

```

```

df.setRowCount(0);

while(rs.next())
{
    Vector v2 = new Vector();
    for(int i=1;i<=c;i++)
    {
        v2.add(rs.getString("doctorno"));
        v2.add(rs.getString("name"));
        v2.add(rs.getString("phone"));
        v2.add(rs.getString("specialization"));
    }
    df.addRow(v2);
}

/*
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    txtname = new javax.swing.JTextField();
    txtphone = new javax.swing.JTextField();
    lbdno = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    txtpspl = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jButton2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jButton4 = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jLabel5 = new javax.swing.JLabel();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(153, 0, 51));

    jPanel2.setBackground(new java.awt.Color(153, 153, 153));

    jLabel1.setFont(new java.awt.Font("Serif", 2, 24)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    jLabel1.setText("Doctor Registration");

    jLabel2.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    jLabel2.setText("Doctor no");

    jLabel3.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel3.setForeground(new java.awt.Color(255, 255, 255));
    jLabel3.setText("Doctor Name");

    jLabel4.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    jLabel4.setForeground(new java.awt.Color(255, 255, 255));
    jLabel4.setText("Phone no");

    txtphone.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txtphoneActionPerformed(evt);
        }
    });

    lbdno.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
    lbdno.setForeground(new java.awt.Color(255, 255, 255));

```

```

lblDno.setText("jLabel15");

jLabel6.setFont(new java.awt.Font("Serif", 2, 18)); // NOI18N
jLabel6.setForeground(new java.awt.Color(255, 255, 255));
jLabel6.setText("Specialization");

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel1)
        .addGap(130, Short.MAX_VALUE))
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(25, 25, 25)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(116, 116, 116)
                .addComponent(jLabel3)
                .addGap(116, javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING)
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel4, javax.swing.GroupLayout.Alignment.LEADING)
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel6, javax.swing.GroupLayout.Alignment.LEADING))
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(25, 25, 25)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(116, 116, 116)
                        .addComponent(txtDname)
                        .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(116, 116, 116)
                        .addComponent(lblDno)
                        .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(txtSp1)))
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
        .addContainerGap())
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel12)
        .addGap(116, javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel13)
        .addGap(116, javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel14)
        .addGap(116, javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE))
)
);

jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel1)
        .addGap(130, Short.MAX_VALUE))
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(25, 25, 25)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(116, 116, 116)
                .addComponent(jLabel3)
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING)
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel4, javax.swing.GroupLayout.Alignment.LEADING)
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel6, javax.swing.GroupLayout.Alignment.LEADING))
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(25, 25, 25)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(116, 116, 116)
                        .addComponent(txtDname)
                        .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(txtPhone, javax.swing.GroupLayout.PREFERRED_SIZE, 176, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(116, 116, 116)
                        .addComponent(lblDno)
                        .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(txtSp1)))
                .addGap(116, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
        .addContainerGap())
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel12)
        .addGap(116, javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel13)
        .addGap(116, javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(116, 116, 116)
        .addComponent(jLabel14)
        .addGap(116, javax.swing.GroupLayout.PREFERRED_SIZE, 45, javax.swing.GroupLayout.PREFERRED_SIZE))
)
);

jButton1.setText("Add");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setText("Update");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        jButton2ActionPerformed(evt);
    }
});

jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

jButton4.setText("Exit");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Doctor no", "Doctor Name", "Phone no ", "Specialization"
    }
) {
    Class[] types = new Class [] {
        java.lang.String.class, java.lang.String.class, java.lang.Integer.class,
        java.lang.String.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTable1MouseClicked(evt);
    }
});
jScrollPane1.setViewportView(jTable1);
if (jTable1.getColumnModel().getColumnCount() > 0) {
    jTable1.getColumnModel().getColumn(0).setResizable(false);
}

jLabel5.setFont(new java.awt.Font("Serif", 2, 36)); // NOI18N
jLabel5.setForeground(new java.awt.Color(255, 255, 255));
jLabel5.setText("Doctor Registration");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(85, 85, 85)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jButton1)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jButton4))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addComponent(jButton2)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jButton3)))
            .addContainerGap())
);
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(85, 85, 85)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1)
                .addComponent(jButton4))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton2)
                .addComponent(jButton3)))
            .addContainerGap())
);

```

```

javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(52, 52, 52))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jLabel5)
        .addGap(472, 472, 472))
    );
jPanel1Layout.setVerticalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jPanel12, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)

            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton4, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(14, 14, 14)
                .addComponent(jLabel5)
                .addGap(14, 14, 14)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(115, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(106, Short.MAX_VALUE))
    );
    jPanel1Layout.setHorizontalGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(106, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(106, Short.MAX_VALUE))
    );
}
}

javafx.scene.layout.GroupLayout layout = new javafx.scene.layout.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(106, Short.MAX_VALUE))
);
}

pack();
setLocationRelativeTo(null);
}// </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    String pname=txtdname.getText();
    String phone=txtphone.getText();
    String spl = txtspl.getText();
    String pno=lbldno.getText();

    try {
        pst = con.prepareStatement("update doctor set name=?, phone=? , specialization=? where
doctorno = ?");
        pst.setString(1,pname);
        pst.setString(2,phone);
        pst.setString(3,spl);
        pst.setString(4,pno);
        pst.executeUpdate();

        JOptionPane.showMessageDialog(this,"Doctor Record Updated");
    }
}

```

```

        AutoID();
        txtname.setText("");
        txtphone.setText("");
        txtspl.setText("");
        txtname.requestFocus();

        Doctor_table();
        jButton1.setEnabled(true);
    } catch (SQLException ex) {
        Logger.getLogger(Doctor.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    String pno=lblno.getText();
    String pname=txtname.getText();
    String phone=txtphone.getText();
    String spl = txtspl.getText();

    try{
        pst = con.prepareStatement("insert into
doctor(doctorno,name,phone,specialization,log_id)values(?,?,?,?,?)");
        pst.setString(1,pno);
        pst.setString(2,pname);
        pst.setString(3,phone);
        pst.setString(4,spl);
        pst.setInt(5,newid);
        pst.executeUpdate();
        JOptionPane.showMessageDialog(this,"Doctor Record Inserted");
        AutoID();
        txtname.setText("");
        txtphone.setText("");
        txtspl.setText("");
        txtname.requestFocus();
        Doctor_table();
    }
    catch (SQLException ex) {
        Logger.getLogger(Doctor.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void txtphoneActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    DefaultTableModel d1 = (DefaultTableModel)jTable1.getModel();
    int SelectIndex = jTable1.getSelectedRow();
    lblno.setText(d1.getValueAt(SelectIndex,0).toString());
    txtname.setText(d1.getValueAt(SelectIndex,1).toString());
    txtphone.setText(d1.getValueAt(SelectIndex,2).toString());
    txtspl.setText(d1.getValueAt(SelectIndex,3).toString());
    jButton1.setEnabled(false);
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    this.setVisible(false);
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:

    String pno=lblno.getText();

    try {
        pst = con.prepareStatement("delete from doctor where doctorno = ?");
        pst.setString(1,pno);

        pst.setString(1,pno);

```

```

        pst.executeUpdate();

        JOptionPane.showMessageDialog(this,"Doctor Record Deleted");
        AutoID();
        txtdname.setText("");
        txtphone.setText("");
        txtspl.setText("");
        Doctor_table();
        jButton1.setEnabled(true);
    } catch (SQLException ex) {
        Logger.getLogger(Doctor.class.getName()).log(Level.SEVERE, null, ex);
    }
}

/**
 * @param args the command line arguments
 */

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JLabel lbdno;
private javax.swing.JTextField txtdname;
private javax.swing.JTextField txtphone;
private javax.swing.JTextField txtspl;
// End of variables declaration
}

```